

**Notice of Allowability**

Application No.

09/977,626

Examiner

THUAN T. NGUYEN

Applicant(s)

ORTBERG ET AL.

Art Unit

2618

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to substitute amendment on 12/27/05.
2. ☒ The allowed claim(s) is/are 1-7,9-25,27-34,36-42 and 44-59.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                               | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material         | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input checked="" type="checkbox"/> Other <u>See Continuation Sheet</u> .          |

Continuation of Attachment(s) 9. Other: Notice of allowability on 10/26/2004.

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/9/04 has been entered.

### ***Reissue Applications***

2. Claims 8, 26, 35, 43, and 60-70 have been previously canceled in the pre-amendment. Pending claims are 1-7, 9-25, 27-34, 36-42, and 44-59.

### ***Remark***

3. All of the objections raised from the examiner have been complied and corrected by the applicants in the substitute amendment filed December 27, 2005.

### ***Allowable Subject Matter***

4. Claims 1-7, 9-25, 27-34, 36-42, and 44-59 have been allowed.

5. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to suggest a chassis frame and module combination comprising:

a) a plurality of modules including:

1) an amplifier module having:

a housing of electrically conductive material defining an enclosed interior; said housing having a front face and an opposite rear face separated by opposite side walls and opposite end walls,

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with each of said faces and sidewalls being of predetermined dimension and with said sidewalls being parallel to one another; each of said end walls having a projecting flange extending in a common plane generally parallel to said sidewalls and with said common plane offset from a central longitudinal axis of said housing; said front face including end portions exceeding beyond each of said end walls;

two coax connectors secured to said rear face with an outer shield of said coax connectors electrically coupled to said housing;

a circuit board contained within said interior and positioned generally parallel to and spaced between said sidewalls; said circuit board having a component side opposing a first of said sidewalls and a ground side opposing a second of said sidewalls, said ground side including a layer of electrically conductive material electrically connected to said housing;

a plurality of connection locations on said circuit board, each of said connection locations including a ground connections for connecting ground shields of coax cables to said layer of electrically conductive material; said component side of said circuit board including a circuit component interconnected with said connection locations through a circuit path;

said circuit component including an amplifier circuit selected to amplify a RF signal supplied to one of said coax connectors and to provide an amplified RF signal to the other of said coax connectors; said coax connectors connected to said connection locations, each of said outer shields of said coax connectors connected to said ground connections of said connection locations; a power supply port located on said rear face; said power supply port interconnected to said amplifier circuit through a circuit path of said circuit board;

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- 2) a transformer module having a transformer electrically coupled to said power supply port of said amplifier module for powering said amplifier circuit, the transformer having a housing with a front face, a rear face, opposite sidewalls and end walls, each of the end walls having a projecting flange;
- b) a chassis frame including a pair of spaced apart walls, said wall spaced apart by a distance substantially equal to a distance between said end walls of said amplifier and transformer modules; each of said walls including a groove, each groove sized to slidably receive one of said projecting flanges as cited;
- c) a lock member for locking at least one of said end portions on each of said plurality of modules to said chassis frame as claimed in claim 1 and with similar limitations in claims 10, 28, and 45.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

5. **Any response to this action should be mailed to:**  
Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to the New Central Fax number:**  
(571) 273-8300, (for Technology Center 2600 only)

Hand deliveries must be made to Customer Service Window,  
Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

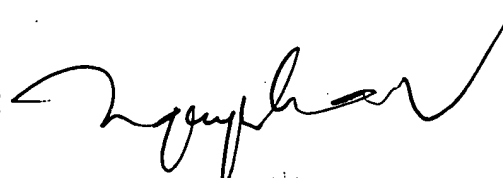
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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (571) 272-7895. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899.

The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Division or Art Unit 2618.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



TONY T. NGUYEN  
PATENT EXAMINER, FSA

Tony T. Nguyen  
Art Unit 2618  
January 05, 2007